QC ABSTRACT

NAME OF WORK: Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
9	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
12	PCC(M10)	Compressive Strength(7days and 28days)	5 set /1-5 cum	83.64	10	10
13	RCC(M20)	Compressive Strength(7days and 28days)	6 set /31-100 cum	157.32	12	12
14	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	4 set /31-100 cum	46.8	8	8
16	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-06-02-01 **Date: 24-01-20**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-01-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 19-02-20

Lab ID	:	CP-2020-06-02-01
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	22-01-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-06-02-01** **Date: 25-01-20**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-01-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-06-02-01** **Date: 25-01-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.17	–

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-06-02-01** **Date: 24-01-20**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-06-02-01** **Date: 24-01-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.19	–
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-06-02-01 **Date: 24-01-20**

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-01-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 22-01-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Date: 24-01-20

Lab ID : CP-2020-06-02-01

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF PRECAST COVER SLAB

Date: 16-02-20

Lab ID	:	**CP-2020-06-02-01**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-02-20
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	11/02/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	2.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	2.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	2.118	4476	81.5	18.2	16.9	21.2

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TEST RESULTS OF STEEL

Lab ID : CP-2020-06-02-01 **Date: 23-01-20**

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-01-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 22-01-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/02/2020

Lab ID	:	CP-2020-06-02-01
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-20
Sample ID No	:	2018-03-16-01 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 -1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22370	8.1	187	8.4	8.0
2	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22574	8.0	166	7.4	
3	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22477	7.7	184	8.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-02-01 **Date: 05/03/2020**

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22759	8.41	318	14.0	13.5
2	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22648	8.05	302	13.3	
3	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22526	8.56	295	13.1	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-02-01 **Date: 13/02/2020**

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22629	7.9	191	8.4	7.8
2	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22372	8.1	157	7.0	
3	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22265	8.5	179	8.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-02-01 **Date: 05/03/2020**

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22819	8.44	306	13.4	13.5
2	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22677	7.95	300	13.2	
3	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22776	8.38	313	13.8	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-06-02-01** **Date: 13/02/2020**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22294	8.4	182	8.2	8.0
2	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22346	8.2	158	7.1	
3	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22815	8.1	201	8.8	

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Format No: CP/TF/01

Lab ID	:	**CP-2020-06-02-01**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/03/2020

Date: 05/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22747	7.95	308	13.5	13.5
2	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22810	8.12	316	13.9	
3	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22504	8.11	293	13.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-06-02-01** **Date: 13/02/2020**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22245	7.8	197	8.9	8.3
2	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22761	8.1	176	7.7	
3	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22377	8.5	185	8.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-06-02-01** **Date: 05/03/2020**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22622	8.19	301	13.3	13.4
2	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22579	8.25	305	13.5	
3	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22748	8.15	304	13.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-06-02-01** **Date: 13/02/2020**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22396	8.5	193	8.6	8.4
2	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22726	8.2	179	7.9	
3	PCC	M10	06/02/2020	13/02/2020	150.22 X 150.54 X 150.55	22301	8.1	194	8.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-02-01

Date: 05/03/2020

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22631	8.57	300	13.3	13.4
2	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22776	8.49	302	13.2	
3	PCC	M10	06/02/2020	05/03/2020	150.22 X 150.54 X 150.55	22350	8.18	307	13.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-02-01 **Date: 17/02/2020**

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-02-20

Customer ID : M20 Drain Bottom Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Drain Bottom Slab	M20	10/02/2020	17/02/2020	149.15 X 149.88 X 149.51	22353	8.089	409.6	18.3	18.4
2	M20 Drain Bottom Slab	M20	10/02/2020	17/02/2020	151.36 X 149.39 X 151.19	22612	8.582	417.0	18.4	
3	M20 Drain Bottom Slab	M20	10/02/2020	17/02/2020	149.60 X 151.79 X 149.61	22707	8.408	416.7	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-02-01 **Date: 09/03/2020**

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-02-20

Customer ID : M20 Drain Bottom Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Drain Bottom Slab	M20	10/02/2020	09/03/2020	150.22 X 150.54 X 150.55	22660	8.59	527	23.2	22.9
2	M20 Drain Bottom Slab	M20	10/02/2020	09/03/2020	150.22 X 150.54 X 150.55	22729	8.37	507	22.3	
3	M20 Drain Bottom Slab	M20	10/02/2020	09/03/2020	150.22 X 150.54 X 150.55	22755	7.98	530	23.3	

Note:
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/02/2020

Lab ID	:	CP-2020-06-02-01
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-02-20
Customer ID	:	M20 Drain Bottom Slab
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Drain Bottom Slab	M20	10/02/2020	17/02/2020	149.58 X 149.51 X 151.68	22364	8.089	409.8	18.3	18.5
2	M20 Drain Bottom Slab	M20	10/02/2020	17/02/2020	149.82 X 151.71 X 150.78	22729	8.582	422.9	18.6	
3	M20 Drain Bottom Slab	M20	10/02/2020	17/02/2020	151.45 X 150.98 X 151.79	22866	8.408	425.4	18.6	

Note:

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-02-01 **Date: 09/03/2020**

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-02-20

Customer ID : M20 Drain Bottom Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Drain Bottom Slab	M20	10/02/2020	09/03/2020	150.22 X 150.54 X 150.55	22495	8.24	518	23.0	22.8
2	M20 Drain Bottom Slab	M20	10/02/2020	09/03/2020	150.22 X 150.54 X 150.55	22701	8.09	509	22.4	
3	M20 Drain Bottom Slab	M20	10/02/2020	09/03/2020	150.22 X 150.54 X 150.55	22748	8.29	524	23.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/02/2020

Lab ID	:	CP-2020-06-02-01
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-02-20
Customer ID	:	M20 Drain Bottom Slab
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Drain Bottom Slab	M20	10/02/2020	17/02/2020	149.73 X 151.34 X 150.54	22659	8.089	416.5	18.4	18.7
2	M20 Drain Bottom Slab	M20	10/02/2020	17/02/2020	151.80 X 149.37 X 151.68	22675	8.582	429.1	18.9	
3	M20 Drain Bottom Slab	M20	10/02/2020	17/02/2020	150.62 X 151.27 X 150.08	22784	8.408	427.2	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2020-06-02-01

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore. **Date: 09/03/2020**

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-02-20

Customer ID : M20 Drain Bottom Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Drain Bottom Slab	M20	10/02/2020	09/03/2020	150.22 X 150.54 X 150.55	22313	8.05	514	23.0	23.1
2	M20 Drain Bottom Slab	M20	10/02/2020	09/03/2020	150.22 X 150.54 X 150.55	22629	8.40	518	22.9	
3	M20 Drain Bottom Slab	M20	10/02/2020	09/03/2020	150.22 X 150.54 X 150.55	22692	7.98	530	23.3	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-02-01

Date: 20/02/2020

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-02-20

Customer ID : M-20 Drain Sidewall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M-20 Drain Sidewall Concrete	M20	13/02/2020	20/02/2020	151.47 X 149.14 X 149.26	22591	8.089	424.1	18.8	18.8
2	M-20 Drain Sidewall Concrete	M20	13/02/2020	20/02/2020	149.99 X 150.70 X 151.54	22603	8.582	420.7	18.6	
3	M-20 Drain Sidewall Concrete	M20	13/02/2020	20/02/2020	149.36 X 150.15 X 149.87	22426	8.408	424.7	18.9	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-02-01 **Date: 12/03/2020**

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-02-20

Customer ID : M-20 Drain Sidewall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M-20 Drain Sidewall Concrete	M20	13/02/2020	12/03/2020	150.22 X 150.54 X 150.55	22704	8.38	532	23.5	23.5
2	M-20 Drain Sidewall Concrete	M20	13/02/2020	12/03/2020	150.22 X 150.54 X 150.55	22569	8.11	518	22.9	
3	M-20 Drain Sidewall Concrete	M20	13/02/2020	12/03/2020	150.22 X 150.54 X 150.55	22490	8.51	539	24.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-02-01 **Date: 20/02/2020**

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-02-20

Customer ID : M-20 Drain Sidewall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M-20 Drain Sidewall Concrete	M20	13/02/2020	20/02/2020	149.52 X 149.33 X 150.14	22329	8.089	405.0	18.1	18.5
2	M-20 Drain Sidewall Concrete	M20	13/02/2020	20/02/2020	149.78 X 149.81 X 149.61	22439	8.582	410.6	18.3	
3	M-20 Drain Sidewall Concrete	M20	13/02/2020	20/02/2020	150.15 X 150.27 X 150.35	22562	8.408	427.5	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/03/2020

Lab ID	:	CP-2020-06-02-01
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-02-20
Customer ID	:	M-20 Drain Sidewall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M-20 Drain Sidewall Concrete	M20	13/02/2020	12/03/2020	150.22 X 150.54 X 150.55	22726	7.96	523	23.0	23.0
2	M-20 Drain Sidewall Concrete	M20	13/02/2020	12/03/2020	150.22 X 150.54 X 150.55	22667	8.15	518	22.9	
3	M-20 Drain Sidewall Concrete	M20	13/02/2020	12/03/2020	150.22 X 150.54 X 150.55	22441	7.95	519	23.1	

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-02-01 **Date: 20/02/2020**

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-02-20

Customer ID : M-20 Drain Sidewall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M-20 Drain Sidewall Concrete	M20	13/02/2020	20/02/2020	149.64 X 150.00 X 150.55	22445	8.089	409.8	18.3	18.5
2	M-20 Drain Sidewall Concrete	M20	13/02/2020	20/02/2020	149.37 X 151.97 X 151.74	22700	8.582	429.4	18.9	
3	M-20 Drain Sidewall Concrete	M20	13/02/2020	20/02/2020	151.93 X 151.24 X 151.54	22978	8.408	419.5	18.3	

Note:

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/03/2020

Lab ID	:	CP-2020-06-02-01
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-02-20
Customer ID	:	M-20 Drain Sidewall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M-20 Drain Sidewall Concrete	M20	13/02/2020	12/03/2020	150.22 X 150.54 X 150.55	22393	8.34	533	23.8	23.3
2	M-20 Drain Sidewall Concrete	M20	13/02/2020	12/03/2020	150.22 X 150.54 X 150.55	22680	8.40	516	22.8	
3	M-20 Drain Sidewall Concrete	M20	13/02/2020	12/03/2020	150.22 X 150.54 X 150.55	22763	8.51	532	23.4	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-06-02-01** **Date: 25/02/2020**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-02-20
Customer ID	:	M-30 Pavement Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M-30 Pavement Concrete	M30	18/02/2020	25/02/2020	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	M-30 Pavement Concrete	M30	18/02/2020	25/02/2020	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	M-30 Pavement Concrete	M30	18/02/2020	25/02/2020	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/03/2020

Lab ID	:	**CP-2020-06-02-01**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-02-20
Customer ID	:	M-30 Pavement Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M-30 Pavement Concrete	M30	18/02/2020	17/03/2020	150.38 X 150.76 X 151.17	22672	8.577	763.1	33.7	33.3
2	M-30 Pavement Concrete	M30	18/02/2020	17/03/2020	150.49 X 150.72 X 150.82	22682	8.331	741.3	32.7	
3	M-30 Pavement Concrete	M30	18/02/2020	17/03/2020	150.02 X 151.15 X 151.90	22675	8.348	760.0	33.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-06-02-01** **Date: 25/02/2020**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-02-20
Customer ID	:	M-30 Pavement Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M-30 Pavement Concrete	M30	18/02/2020	25/02/2020	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	M-30 Pavement Concrete	M30	18/02/2020	25/02/2020	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	M-30 Pavement Concrete	M30	18/02/2020	25/02/2020	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-02-01** **Date: 17/03/2020**

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-02-20

Customer ID : M-30 Pavement Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M-30 Pavement Concrete	M30	18/02/2020	17/03/2020	151.92 X 149.80 X 149.33	22758	8.575	758.9	33.3	33.2
2	M-30 Pavement Concrete	M30	18/02/2020	17/03/2020	150.88 X 149.03 X 149.18	22486	8.477	737.4	32.8	
3	M-30 Pavement Concrete	M30	18/02/2020	17/03/2020	149.89 X 150.93 X 151.51	22622	8.191	755.8	33.4	

Note:

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/02/2020

Lab ID	:	CP-2020-06-02-01
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-02-20
Customer ID	:	M-30 Pavement Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M-30 Pavement Concrete	M30	18/02/2020	25/02/2020	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	M-30 Pavement Concrete	M30	18/02/2020	25/02/2020	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	M-30 Pavement Concrete	M30	18/02/2020	25/02/2020	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-02-01 **Date: 17/03/2020**

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-02-20

Customer ID : M-30 Pavement Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M-30 Pavement Concrete	M30	18/02/2020	17/03/2020	151.89 X 150.95 X 151.76	22928	8.196	761.2	33.2	33.0
2	M-30 Pavement Concrete	M30	18/02/2020	17/03/2020	150.66 X 149.08 X 150.53	22459	8.269	729.4	32.5	
3	M-30 Pavement Concrete	M30	18/02/2020	17/03/2020	150.09 X 150.93 X 149.76	22652	8.195	754.1	33.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/02/2020

Lab ID	:	CP-2020-06-02-01
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer's Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-02-20
Customer ID	:	M-30 Pavement Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M-30 Pavement Concrete	M30	18/02/2020	25/02/2020	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	M-30 Pavement Concrete	M30	18/02/2020	25/02/2020	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	M-30 Pavement Concrete	M30	18/02/2020	25/02/2020	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-02-01

Date: 17/03/2020

Customer : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15

Agency : Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/515/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-02-20

Customer ID : PCC (M30), Pavement Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC (M30), Pavement Concrete	M30	18/02/2020	17/03/2020	151.19 X 151.96 X 151.09	22974	8.010	768.1	33.4	33.3
2	PCC (M30), Pavement Concrete	M30	18/02/2020	17/03/2020	151.75 X 151.63 X 149.34	23010	8.173	756.8	32.9	
3	PCC (M30), Pavement Concrete	M30	18/02/2020	17/03/2020	149.51 X 151.06 X 149.45	22584	8.197	759.6	33.6	

Note:

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2020-06-02-01** **Date: 04-02-20**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-20
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	01-02-20
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-2020-06-02-01** **Date: 04-02-20**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-20
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	01-02-20

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2020-06-02-01** **Date: 04-02-20**
Customer	:	Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC drain and Covering Slab Kempegowda nagara 3rd main road in Dasarahalli Ward no 15
Agency	:	Sri.S.M.Eregowda #1096,5th Cross Maheshwari nagara T.Dasarahalli Bangalore-57
Customer Reference	:	EE/DD/WO/515/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-20
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	01-02-20

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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CIVIL Pro Sig. Date BANGALORE

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